

Figures 1 – 5: Maps and Design Drawings of Aravaipa Creek Fish Barriers

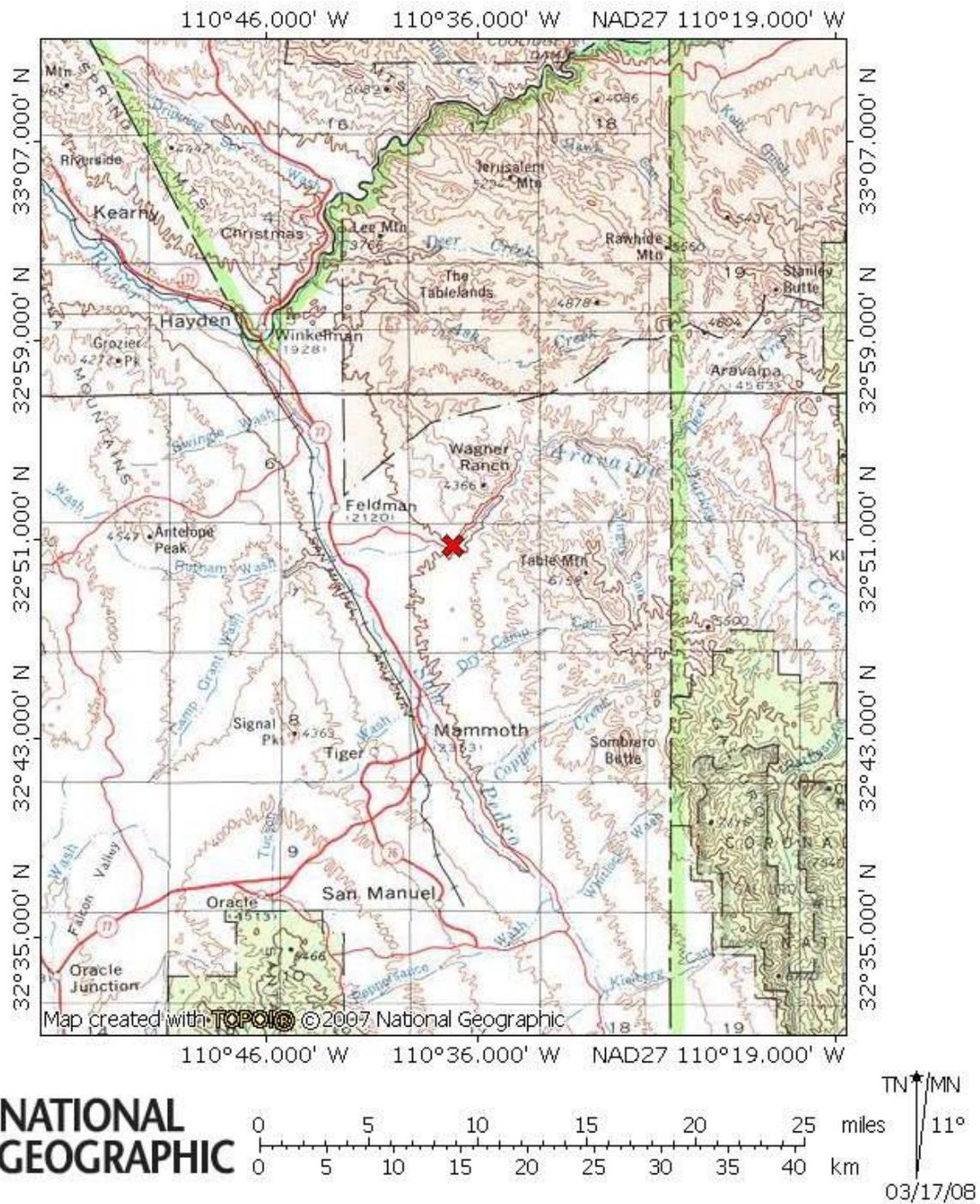


Figure 1. Map depicting location of Aravaipa Creek fish barriers.



Figure 2. Aerial view of Aravaipa Creek barriers.

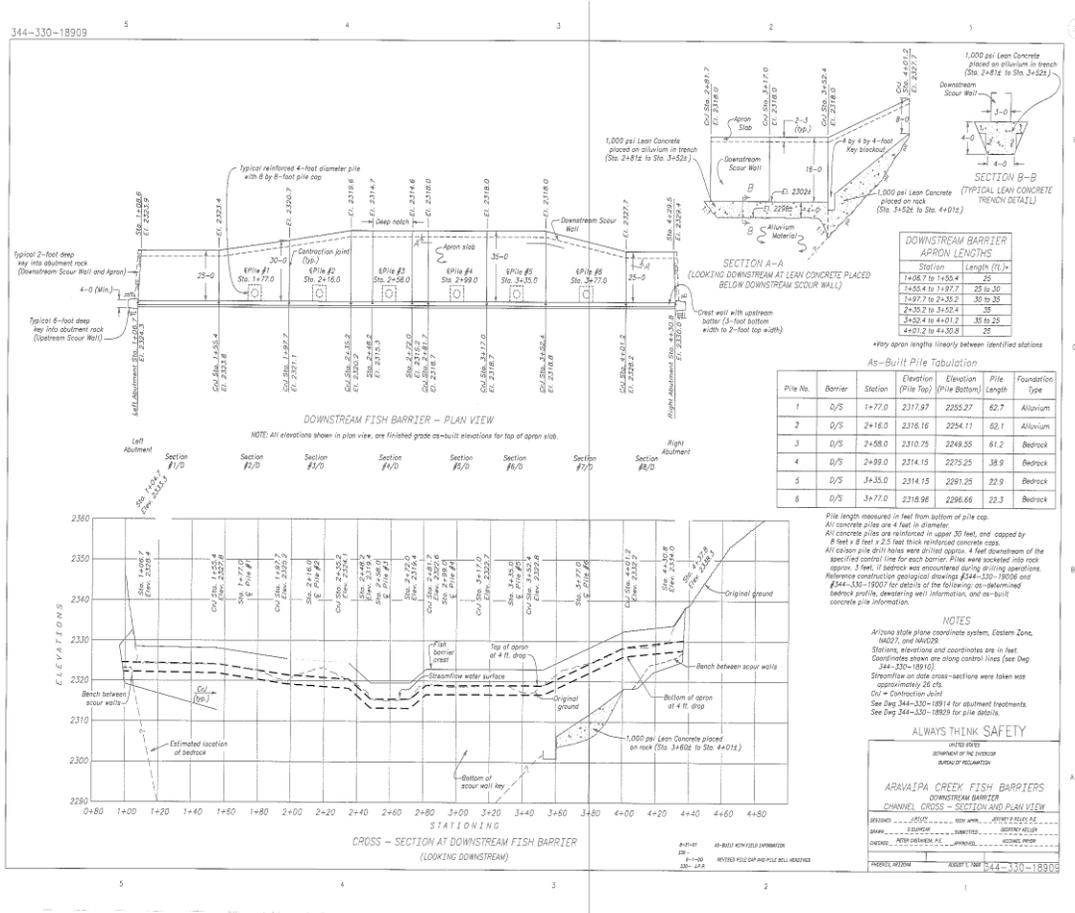


Figure 3. Channel cross-section and plan view of downstream Aravaipa Creek barrier.

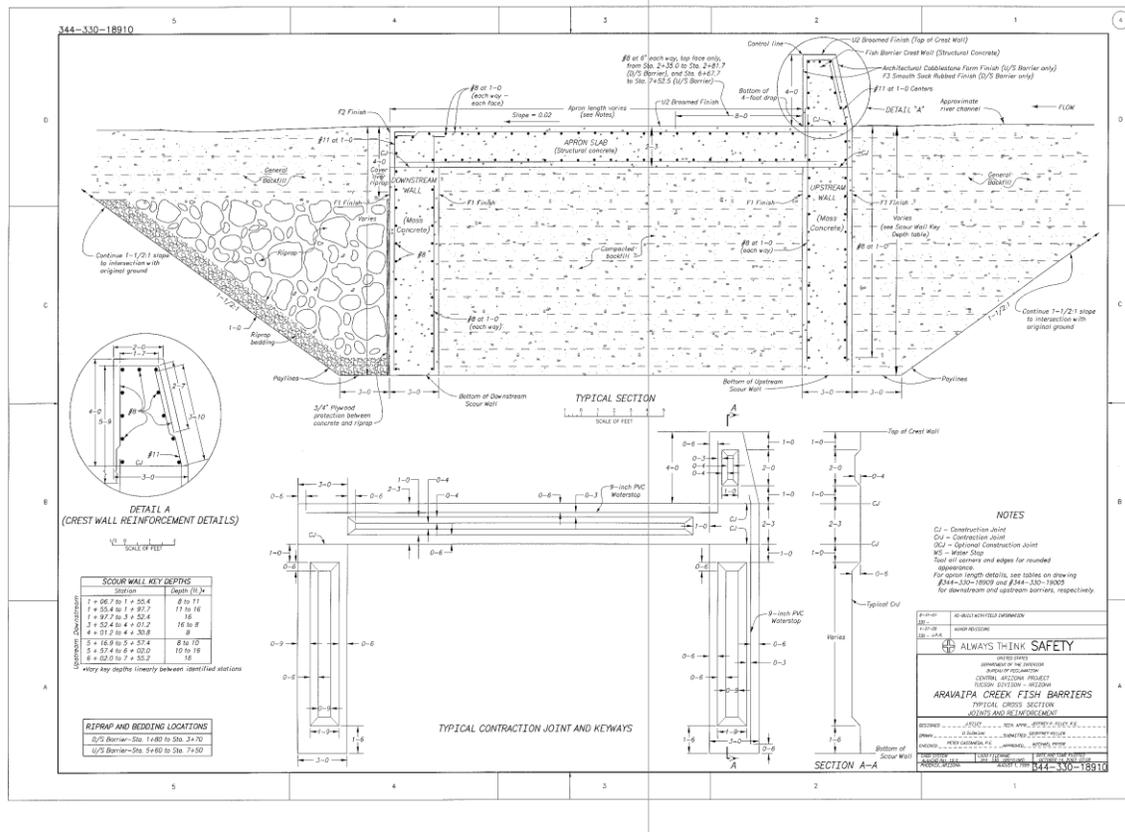


Figure 4. Typical cross-section joints and reinforcement for Aravaipa Creek barriers.

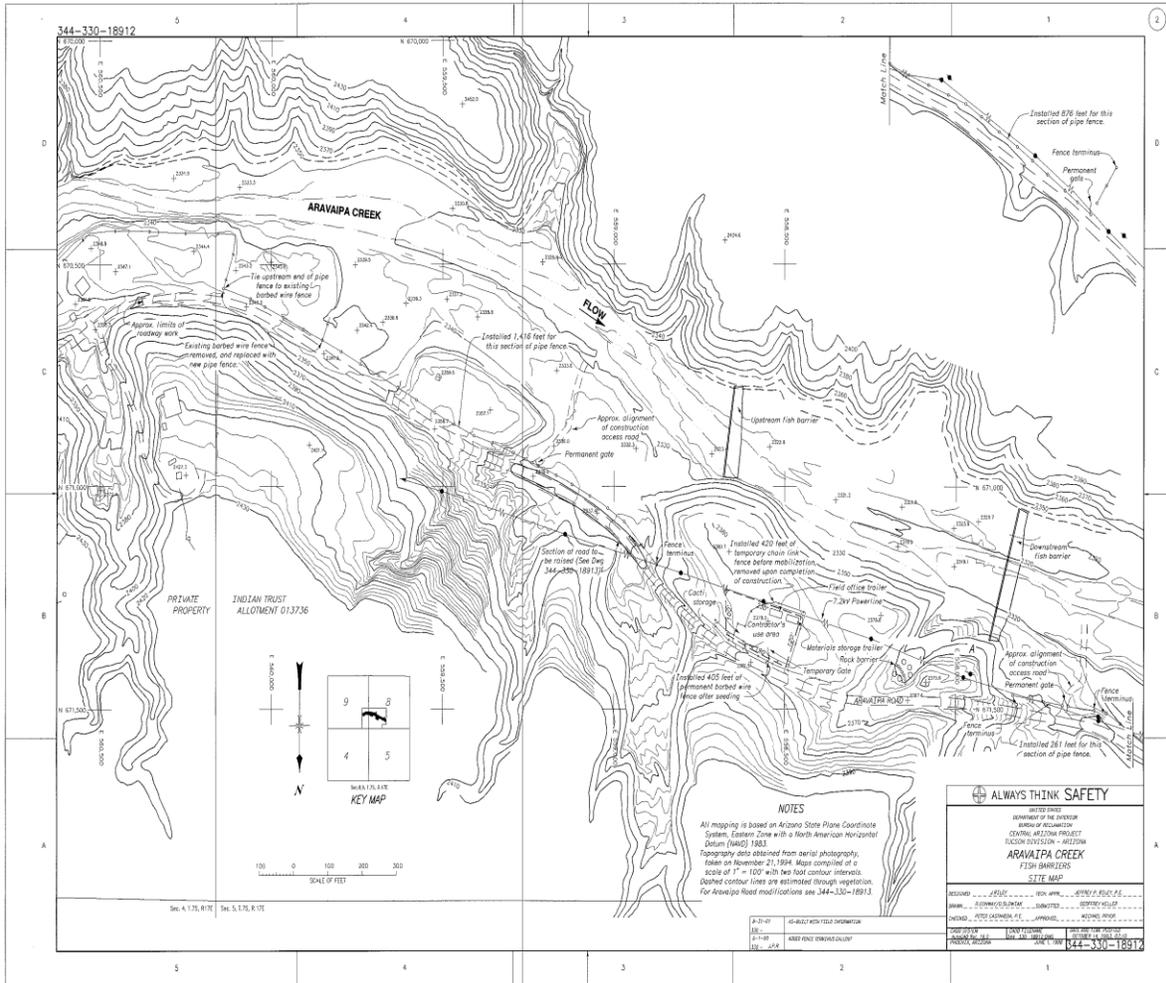


Figure 5. Aravaipa Creek barrier site map.

Figure 6a – I: Araviapa Creek Fish Barrier Construction Photos



Figure 6a. Aravaipa Creek prior to the construction of the barriers.



Figure 6b. A diversion channel was constructed to divert the existing stream flows.



Figure 6c. Dewatering well system pumps discharge water into the diversion channel.



Figure 6d. Pilings of concrete are placed in the stream bed to support the structure. This occurs by placing casings in the earth and filling them with concrete.



Figure 6e. Trench excavation around the reinforced concrete piles.



Figure 6f. Reinforced concrete scour walls were constructed to prevent erosion of the stream's substrates.



Figure 6g. Backfilling of the structure.



Figure 6h. Placement of the reinforced concrete apron slabs.



Figure 6i. Reinforcing the concrete drop crest walls.



Figure 6j. Right abutment of the barrier structure.



Figure 6k. Side-view of completed barrier.



Figure 6k. Front-view of completed barrier.

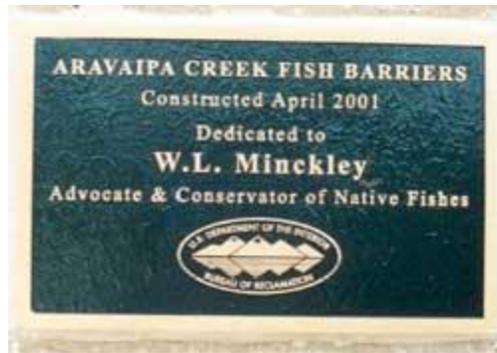


Figure 6l. Fish barrier dedication plaque.